

We claim:

1. A novel use of neuroactive compounds in a subject wherein the steps of invention comprises:
 - (a) culturing *Drosophila melanogaster*,
 - (b) collecting flies of a single age group,
 - (c) separating males from females flies of step (b),
 - (d) treating the males of step (c) in the presence or absence of neuroactive drugs in the medium comprising agar-agar, maize powder, brown sugar, dried yeast and nipagin,
 - (e) subjecting the flies of step (d) to negative geotaxis,
 - (f) examining locomotor activity of flies of step (e) in terms of height climbed, wherein an alteration in height climbed in drug treated males, compared to that of normally fed flies, is characteristic of neuroactive compounds
 - (g) treating the males of step (f) in the absence of neuroactive drugs in the medium,
 - (h) crossing the males of step (d) with females never exposed earlier to any drug at any time to obtain F1 generation
 - (i) subjecting F1 flies to negative geotaxis,
 - (j) examining the height climbed by flies of step (i), wherein an altered locomotor activity is indicative of inheritance of altered behavior to F1 progenies,
 - (k) self-crossing the flies of step (h) to obtain F2,
 - (l) subjecting F2 flies to negative geotaxis assay,
 - (m) examining the height climbed by flies of step (i), wherein an altered locomotor activity is indicative of inheritance of altered behavior to F2 progenies.
2. A process as claimed in claim 1, wherein the subject is *Drosophila melanogaster*
3. A process as claimed in claim 1, wherein in step (b) the age is in the range of 2 to 4 days.